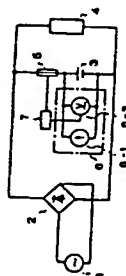


## ===== WPI =====

- TI - Lead battery life judgement - by measuring the internal impedance  
 AB - J03249582 Method comprises measuring the internal impedance of the Pb battery. The ripple electric voltage by the ripple current contained in the charging current of the lead battery connected under floating charging condition via a rectifier, is reduced from the measured electric voltage obtd. by the measuring electric current of the internal impedance measuring device. The differential voltage is divided by the measuring electric current to calculate the internal impedance.  
 - USE/ADVANTAGE - Here, the life of the lead battery used under floating charging condition can be correctly judged. (3pp Dwg.No.1-3/3)  
 PN - JP3249582 A 19911107 DW199151 000pp  
 PR - JP19900049026 19900227  
 PA - (YUAS ) YUASA BATTERY CO LTD  
 MC - L03-E L03-E01B1  
 - S01-G06  
 DC - L03 S01  
 IC - G01R31/36  
 AN - 1991-372493 [51]

## ===== PAJ =====

- TI - METHOD FOR DECIDING LIFE OF LEAD BATTERY  
 AB - PURPOSE: To decide a life by subtracting a ripple voltage caused by a ripple current from a voltage measured with the voltage measurement of internal impedance and calculating the internal impedance in the manner of dividing the obtained voltage difference by the measured current.  
 - CONSTITUTION: A measuring instrument 6 for internal impedance consisting of a constant AC current source 6-1 and an AC voltmeter 6-2 is connected to a lead battery 3, and when the internal impedance is measured by means of allowing the measuring current of constant AC current 1A with 60Hz frequency to flow and reading out the measured voltage by the AC voltmeter 6-2, it is learned that the measured voltage at the opened circuit state is being coincident with the voltage difference between the measured voltage at the floating charge state and the ripple voltage. Consequently, the internal impedance can be calculated by dividing this voltage difference by the measured current. When the internal impedance is larger than 1.28mOMEGA in either cases of opened circuit state or floating charge state, the life is decided as the limit.  
 PN - JP3249582 A 19911107  
 PD - 1991-11-07  
 ABD - 19920205  
 ABV - 016046  
 AP - JP19900049026 19900227  
 GR - P1307  
 PA - YUASA BATTERY CO LTD  
 IN - IKUTA KOJI; others: 01  
 I - G01R31/36



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